

Docket Number: 008312-0281351  
Client Reference: T4TY-01S0006-1

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PATENT APPLICATION

2652

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of

MINORU YONEZAWA, et al.

Group Art Unit: 2652

Application No.: 09/873,408

Examiner:

Filed: June 5, 2001

Confirmation No.:

For: OPTICAL DISK APPARATUS AND METHOD OF ADJUSTING THE SAME

INFORMATION DISCLOSURE STATEMENT

RECEIVED

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

APR 16 2004

Technology Center 2600

Sir:

Pursuant to 37 CFR 1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom. Applicants respectfully request the Examiner return an initialed copy of the enclosed Form PTO-1449 to Applicants with the next Office communication to indicate that the reference(s) has been considered, per MPEP § 609.

This Information Disclosure Statement is being filed before the mailing date of the first Office Action on the merits in the present application. No certification or fee is required.

The references were cited in a international search report in a counterpart foreign application. An English language version of the foreign search report is attached for the Examiner's information.

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A concise explanation of the relevance of the non-English language references appears in the Appendix attached hereto. An English-language Abstract of the non-English language reference is attached hereto.

Respectfully Submitted,

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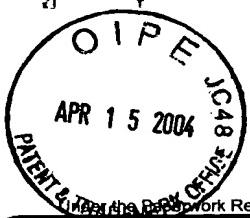
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## APPENDIX

### Concise Explanation

WO 98/16924: describes a method which serves to control the focusing of a light beam, aimed at a rotating recording medium (25) for reading data, of a scanner (15, 20) onto the recording medium (25) and the guidance of the light beam along the data tracks of the recording medium (25), each by means of a respective control circuit. The scanner (15, 20) and the recording medium (25) are mounted on a fundamental substrate (10) in at least one housing (1), and the at least one housing (1), together with the fundamental substrate (10), the scanner (15, 20) and the recording medium (25), forms a coupled mechanical oscillator, which is vibrated as a function of a vibration spectrum (75); the scanner (15, 20) is accelerated by the vibration and a relative motion of the recording medium (25) with respect to the scanner (15, 20) is effected, and the amplitudes of the relative motion and the accelerations have a frequency response. The masses, spring constants and damping values of the scanner (15, 20), the recording medium (25), the fundamental substrate (10), and the at least one housing (1) are selected such that the frequencies at which the amplitudes of the relative motion of the recording medium (25) relative to the scanner (15, 20) and the accelerations acting on the scanner (15, 20) are maximal are located in a frequency band of the respective control circuit in which an amplification is performed, and the maximum values of the amplitudes in that frequency band do not exceed a predetermined value



PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

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## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

**(Use as many sheets as necessary)**

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**Complete if Known**

|                        |                 |
|------------------------|-----------------|
| Application Number     | 09/873,408      |
| Filing Date            | 06/05/2001      |
| First Named Inventor   | MINORU YONEZAWA |
| Art Unit               | 2652            |
| Examiner Name          |                 |
| Attorney Docket Number | 008312-0281351  |

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**U. S. PATENT DOCUMENTS**

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## FOREIGN PATENT DOCUMENTS

| FOREIGN PATENT DOCUMENTS |                       |                                                |                                   |                                |                                                    |                                                                                 |
|--------------------------|-----------------------|------------------------------------------------|-----------------------------------|--------------------------------|----------------------------------------------------|---------------------------------------------------------------------------------|
| Examiner Initials*       | Cite No. <sup>1</sup> | Foreign Patent Document                        |                                   | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages<br>or Relevant Figures Appear |
|                          |                       | Country Code <sup>3</sup> -Number <sup>4</sup> | Kind Code <sup>5</sup> (if known) |                                |                                                    |                                                                                 |
|                          | A                     | EP                                             | 1 003 159                         | A1                             | 05-24-2000                                         | SAKAMOTO et al.                                                                 |
|                          | B                     | WO                                             | 98/16924                          |                                | 04-23-1998                                         | BUCHS et al.                                                                    |
|                          | C                     | EP                                             | 0 745 981                         | A2                             | 12-04-1996                                         | BABA                                                                            |
|                          |                       |                                                |                                   |                                |                                                    |                                                                                 |
|                          |                       |                                                |                                   |                                |                                                    |                                                                                 |

**\*EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.<sup>1</sup> Applicant's unique citation designation number (optional).<sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04.<sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).<sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.<sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible.<sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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